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(54) MODIFIED PROPYLENE POLYMER HAVING LOW MOLECULAR WEIGHT AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To obtain the titled polymer having a specific physical property and low content of gelatinous modified polymer, and giving a coating film having excellent heat resistance, hardness and adhesivity, by grafting an unsaturated carboxylic acid derivative to a linear propylene oligomer.

CONSTITUTION: A linear propylene oligomer is made to react with an unsaturated carboxylic acid derivative selected from unsaturated carboxylic acid, its anhydride and its ester, under heating, to obtain the objective polymer wherein the propylene oligomer has a propylene content of 60W100wt% and other 2W20C α -olefin content of 0W40wt%, an intrinsic viscosity $[\eta]$ of 0.03W0.8dl/g measured in decalin at 135° C, a molecular weight distribution (represented by M_w/M_n) of 1W8, a melting point of 120W165° C, a softening point of 50W160° C, and a crystallinity of 20W65%. The ratio of the grafted unsaturated carboxylic acid component is 0.01W20g, the content of the gelatinous modified polymer is $\leq 0.05g$, and the amount of the terminal vinyl group is $\leq 0.005mol$ per 100g of the propylene oligomer.

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